

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Schedule #

Approval

Construction

Specifications			
Model	Indoor Unit Model Number (US Code)		AC018BNADCH/AA (CNH18ADB)
	Outdoor Unit Model Number (US Code)		AC018BXADCH/AA (CXH18ADB)
Performance <sup>1</sup>	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
	Capacity Range	Cooling (Btu/h)	6,000 - 22,000
		Heating (Btu/h)	3,300 - 28,000
	SEER / EER		19.1 / 12.0
	COP (nominal heating)		3.2
	HSPF		10
AHRI Certification Number		207465447	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	2.1 / 6.9 / 9.7
		Heating (A)	1.8 / 8.3 / 20.0
	Max. Breaker	Amps	25
	Min. Circuit Ampacity (A)	18.4	
Dimensions	W X H X D (in.)	Indoor Unit	41 9/16 X 8 7/16 X 11 3/4
		Outdoor Unit	34 5/8 X 31 7/16 X 12 1/4
	Weight (lbs.)	Indoor Unit	27.8
		Outdoor Unit	118.4
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	32 / 37 / 42
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
Operating Temperatures	Outdoor	Cooling	23 ~122°F (-5~ 50°C) 0~122°F (-18~ 50°C) W/ Baffle
		Heating	-13~75°F (-25 ~ 24°C)
	Indoor	Cooling	61 ~90°F (16 ~32°C)
		Heating	T≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	1/2"
	Maximum (ft.)		164
	Maximum Vertical Separation (ft.)		98.4
Condensate Connection		1 1/4 O.D X 1 I. D	
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	lbs.	4.4
	Charged for Additional Refrigerant		24.6 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	12.7
Evaporator Fan	Type		BLDC With Crossflow Fan (1)
	Air Volume	CFM (L/M/H)	441 / 540 / 615
	Output (W) / FLA (A)		27 W / 0.42 A
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		1.25 A / 125 W / 2,154 CFM
Safety	Certifications		ETL (UL 1995)
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing		



- General Information
- The indoor unit shall feature "WindFree™" mode\*. In cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants
  - The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
  - High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
  - Auto-restart after power loss
  - Soft-start compressor minimizing current inrush
  - Base pan heater equipped as standard
  - All heat exchangers shall be mechanically bonded aluminum fin to copper tube
  - The condensing unit heat exchanger salt spray test method: ISO-9227 - the heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
  - The system shall provide 100% heating capacity at -4°F (-20°C).

- Option settings
- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
  - Night-time Quiet Mode: reduction of operational sound during (*automatic or manual activation*)
  - Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds configurable temperature level, the system outputs a signal to an external source, e.g., backup system, building management system, alert device (ex: status light, warning lamp, buzzer)
  - System can be configured as heating/cooling, cooling only, or heating only via outdoor unit option setting
  - Maximum Current Control configurable from 50% - 100% via outdoor unit, wired controller, or central controls

- Indoor Fan
- Indoor fan is a single crossflow type
  - Three fan speed settings and auto setting
  - Washable filter as standard
  - The WindFree™ function will close the supply air outlet louver while in cooling mode to gently disperse cool air into the space without blowing directly onto occupants. The WindFree™ feature is optional and can be enabled using central or local control options
  - The WindFree™ indoor unit has an integral humidity sensor that will open the louver for standard cool mode when space conditions could potentially cause condensation formation on the chassis surface

- Construction
- Outdoor unit: Galvanized steel with a baked-on powder coated finish for durability
  - Indoor unit: UL94 V0 with a galvanized steel mounting plate
  - The indoor unit shall have easy access to wire, pipe, and drain connections via access panel on the front of the unit for easier installation and service

- Controls
- Control wiring shall be 2 X 16 AWG
  - Wireless controller included as standard
  - Wired controllers must be purchased separately
  - Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options
  - No additional interface modules/adapters are required when connecting to Samsung central control options
  - The unit shall be operated via a wireless or wired remote control with DDC type signal

- Refrigerant System
- The compressor shall be hermetically sealed, inverter-controlled Twin BLDC rotary type
  - Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

10 years compressor, 10 years parts, 1-year limited labor (conditions apply)

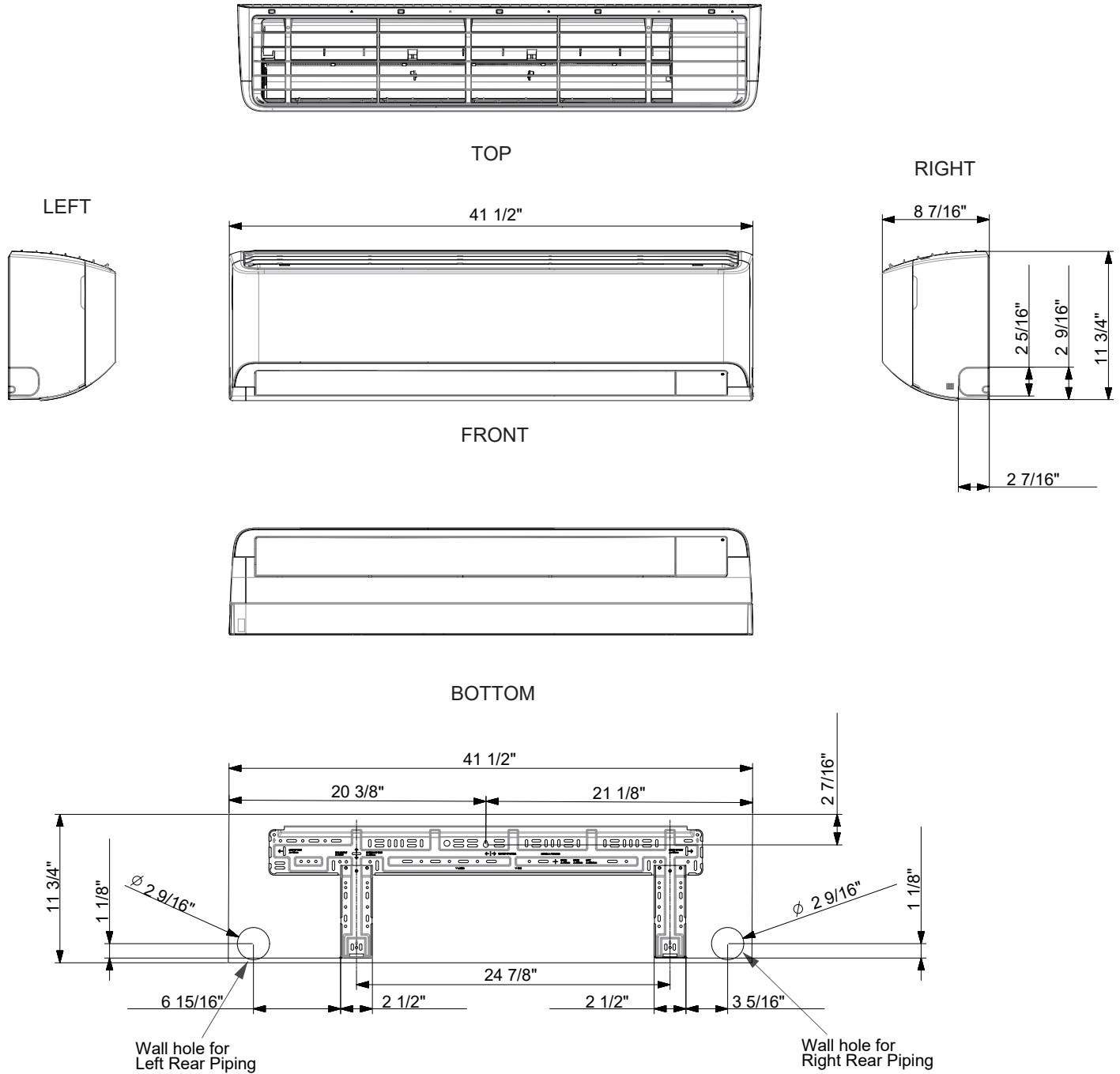
<sup>1</sup> Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240

Samsung HVAC maintains a policy of ongoing development; specifications are subject to change without notice

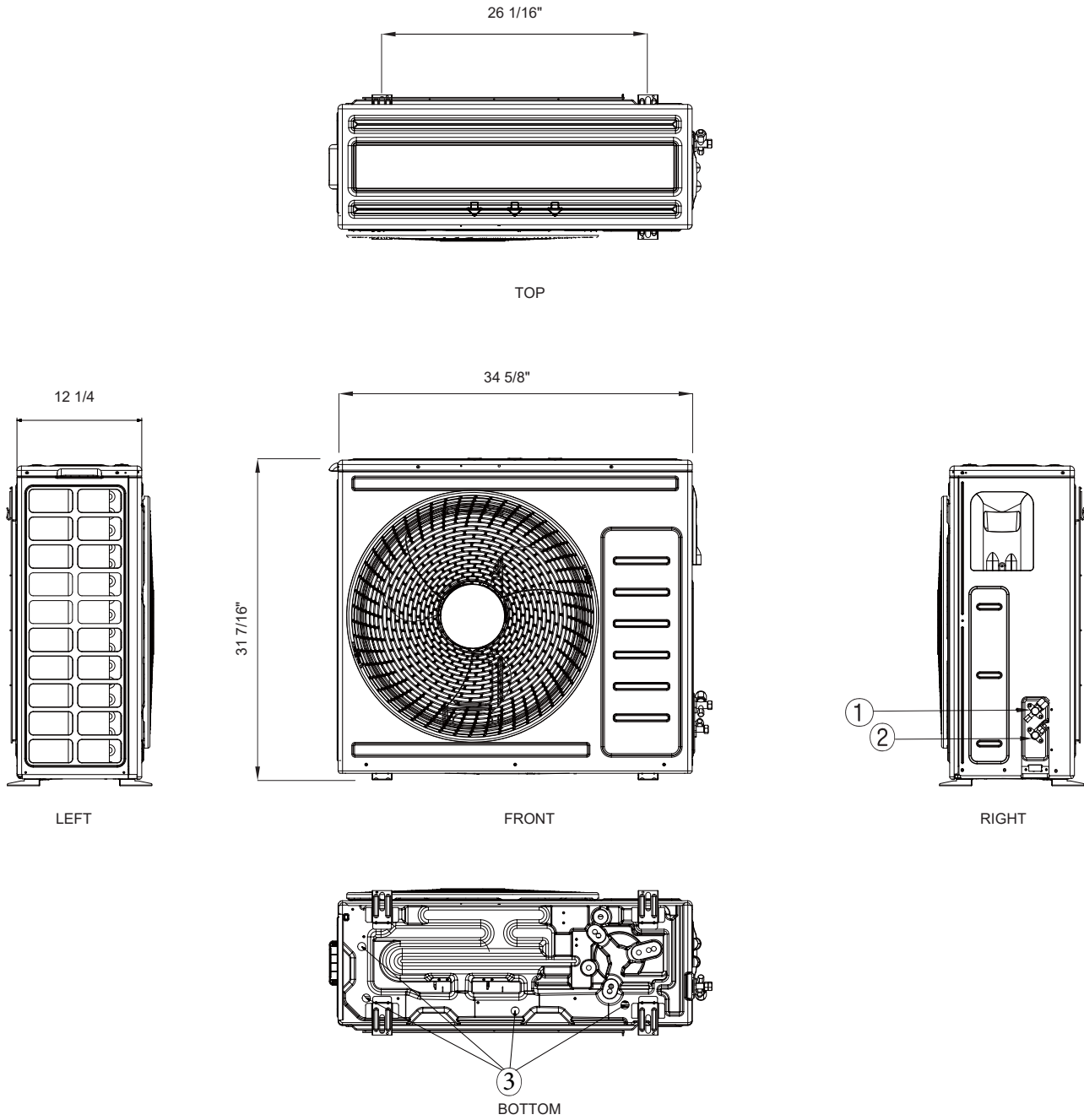
\* The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)

Optional Accessories

Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wi-Fi adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-7M
	Back	WBB-7M-B
Hail Guard Kit (includes back and side guards)		HGK-2
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2507
		50' - ILS-5007



No.	Name	Description
1	Liquid pipe connection	1/4"
2	Gas pipe connection	1/2"
3	Drain pipe connection	11/16" OD
4	Power supply & Communication wiring conduit	-



No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 1/2
3	Drain hole	Connect with provided drain plug